MAKERS GIVE ADVICE FREELY TO OWNERS.

Every automobilist is familiar with tires. As a matter of fact it is not well to say that an automobilist is familiar with tires, he is rather more likely to regard them with respect. He cannot tell exactly how a tire is going to act and it is this condition that has made them a very important item in the expense of keeping up an automobile. The average user of a car does not know a great deal about what goes into a tire, and in fact very little has ever been said about the

way tires come to be.

of the fabric will be free and natural and also that it is soft enough to penetrate the interstices of the fabric and keep the threads from rubbing together and causing friction to destroy the fabric before the tire has seen real service enough to wear it out naturally

The above are the chief reasons why that part of the tire called the carcass fabric is designed and constructed under the present arrangement of parts. As it is necessary to protect the carcass fabric from road wear, punctures, &c., there is need of much more covering on that par of the tire coming in contact with the road. Therefore the soft rubber called the cushion and an extra layer of fabric called the breaker strip are introduced into the construction. The outside wearing surface or tread must necessarily be harder and tougher than the inner portions, in order to take the wear and not grind or cut off.

"It must also be capable of withstanding the action of air and moisture to a considerable extent. Therefore, on this, as on the carcass fabric, depends a large part of the strength of a tire. The vulcanizing, or curing of tires, consists in subjecting them to a certain heat temperature for a certain period of time in order to unite the several parts into one ticity, without which rubber is of no especial value as a wearing agent.

layers of rubber from which the tire is composed must be so compounded as benefit always. to blend, or flow, and unite solidly, making up a tire when complete, which is nothing more or less than a wall of rubber in which is imbedded fabric placed in such a position as will give the best results.
"The Fisk bolted on tire is constructed

all the above features carefully studied out, but in addition to these it has the advantage of being designed to hold to the rim mechanically, and not by air pressure. This feature insures absolute safety against accidents from tire being thrown off the wheels in case of loss of air pressure, through punctures cuts or any other injury that is liable to occur to a tire when in use and that cannot be guarded against by any amount of care on the part of the user.

The education of automobile owners as to what constitutes a tire has been further undertaken by the B. F. Goodrich Company, which some time ago engaged the services of a lecturer and an operator to present a series of moving picture views illustrating the entire process from tree to tire. These motion pictures were taken at a large expense to the company. They represent the South American phases of the process, the tapping of the rubber the preparation of the rubber milk for shipment, the inspection of the large markets and the loading for foreign ports The Akron views illustrated every one of the steps taken at the factory to produce an aurtomobile tire, from the washing of the crude rubber to the shipment of a white tread. This idea of showing the tire user how a tire is made met with hearty demonstrations of approval. A great deal of territory has been covered thus far throughout Ohio, Pennsylvania, New York, New Jersey, West Virginia. Maryland, Connecticut and Maine. The exhibition was also given in the middle West and on one occasion in Detroit the attendance was more than 2,500.

It was given later on in a larger place and the attendance was more than 4000. Altogether more than 40,000 persons have attended the lecture and the Goodrich company feels that great steps have been taken to educate people to a realization of exactly what it means to bring out

As a further activity in the education of owners R. J. Firestone, sales manager of the Firestone Tire and Rubber Company, offers advice to motorists who lay up their cars for the winter so as to prevent deterioration of cases and tubes.
"To relieve the strain," says he, "jack

up the car off all four tires and let out enough of the air to release the internal pressure on the case. If the tires are practically new or in good repair it will be sufficient to leave them this way, taking oure to clean all oil and grease off the out-Ade. Do not let them come in contact with heat or dampness and cover or wran them to exclude the light and air. Tires which are perceptibly worn or cut should

spected and turned over to a competent rubber shop for attention if necessary

"In fact it is an excellent plan to remove the tires if there are any damages, as small injuries quickly grow to serious Here is where quick detachable Things They Ought to Do-History of the demountable rims are a great advantage. Making of Shoes and Tubes for Auto- as they make quick tire changing so easy mobiles and Many Points of Separate that the owner does not keep postponing Exhibits of the Various Manufacturers the job until it is never done to the detriment of the tires. Tires which are removed from the rims should be wrapped in paper to exclude light and air and stored in a cool, dark place. All rust should be cleaned off the rims and the inside cleaned with graphite or polish to prevent further

"The quick demountable rim has been a decided advantage to users of tires and has helped to rob the tire problem of one of its most unpleasant phases. As a general thing the tires that are made nowadays are all of a high standing and there are so many companies that in spite of the pany companies that in spite of the pany qualifies the Hartford company companies that in spite of the catchword of the Hartford it is "the tire that lasts," and if the experience of long years in the bicycle business previous to entering into the automobile business qualifies makers to understand the tire business, that certainly qualifies the Hartford company that the pany that it is "the tire that lasts," and if the experience of long years in the bicycle business previous to entering into the automobile business qualifies makers to understand the tire business that are made nowadays are all of a high standing some far bany.

are so many companies that in spite of pany.

J. A. Braden of the Diamond Rubber

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TIRES AND THE CARE OF THEM be removed from the rims, cleaned, in- reenforce each other and at the same time make a vacuum cup which is very effective as a non-skid agent. The webs are tapered down to practically nothing at the ends so that there are no abrupt ends opposed to the cutting effect of the road surface.

The Hartford Rubber Works Com-The Hartford Rubber Works Com-peny manufactures Dunlops, clinchers, quick detachables and non-skid Midgley tires. The Hartford company was the original maker of the Dunlop tire in America, which is called the most ra-tional pneumatic au omobile tire. It is claimed for the Hartford tires, which are shown at the exhibition in the Gar-den that they are desired tight to begin den that they are designed right to begin with and that they are constructed with the very best materials only by advanced methods and machinery in one of the methods and machinery in one of the oldest exclusively tire factories in the

ment until now the automobile tire of the best make is well nigh perfect. The fourth and last epoch is the development of the aeroplane. What this may lead to is difficult to determine at this stage. Special attention has been paid to aeroplane tires and now rubber fabric for the planes is being widely used. This particular phase of the industry is a most interesting one and seems bound to be an important branch before many years pass.

interesting one and seems bound to be an important branch before many years pass.

"At present, however, the layman's chief concern lies in tires for automobiles. It is on this that tire manufacturers are bending their utmost efforts in producing the most perfect article possible. What with reliability runs, coast to coast tours and activities of all kinds tires are being put to the severest test. Manufacturers are constantly striving to make tires that contain the maximum of air, that are hard to puncture and that give the most mileage.

"First of all the rubber must be the best obtainable. I consider pure Para rubber the finest for that respect for automobile tires. Sea Island cotton has been found to be the most practicable for the fabrics. Not long ago manual labor was employed exclusively in building tires. It took a big powerful man to stretch the fabric over the automobile tire casing. Few could gain the skill required to roll and work this fabric into place so that it conformed perfectly to the round surface of the casing. It took the best men three years to become expert tire makers.

"Then too there were not enough of

Price Reductions

Diamond

10% on Casings-15% on Tubes Effective January 9th

Crude rubber market conditions appear to justify these pecial value as a wearing agent. In order to accomplish this the several lower prices. We wish to give our customers such

12th Year

The Diamond Rubber Co.

Akron, Ohio

Greatest Mileage

KEEPS OUT MOISTURE --- SAVES YOUR TIRES This is just one of the many reasons why the preferred equipment of the leading cars is the

restone Quick-Detachable

DEMOUNTABLE RIM

This Rim is Not Split

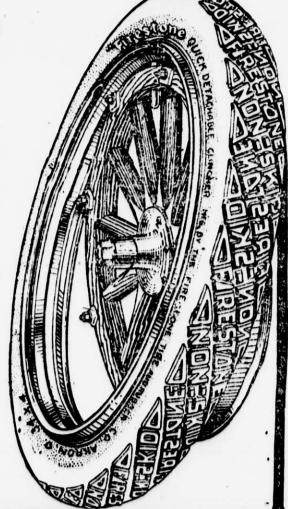
The base of the Firestone rim is not split, either around the rim or across The base is one piece, and does not permit the entrance of water to rot casing and tube. Even the valve hole is protected by a leather washer.

The Firestone quick detachable feature holds the tire on safely, without the need of bothersome lugs or stay. bolts. And it permits any number of tire-changes without even demounting rim from wheel.

Call for a personal demonstration and see why this rim is preferred above all others, by the leading car makers.

Madison Square Garden: Space 164 N. Y. Branch: 233 W. 58th St.

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The rubber studs wear slow on heavy partices for every purfortable. The rubber tread will not harm the softest roadbed nor will it be prohibited from use on the most restricted drives. Continental Traxion Tread tires are built with careful attention to detail as regards quality and superior workmanhip. The rubber studs cannot be come loose as they are integrally constituted and can not separate from the body of the tire itself. The cost—a reasonable advance over the plain tread areasonable advance over the plain tread casing, is to cover the increased cost of manufacture and is much less than other the continental.

The rubber studs wear slow on heavy reads on heavy roads or under hard driving. Now is the time to safeguard you car and passengers against injury or possible loss of iliquity or possible loss of iliquity

12th Triumphal Year

Made to Get and Hold Your Business. Manufacturing Practice in the Building of

Diamond TIRES

Has Never Been Framed for Advertising Purposes

The design, size and construction are determined intelligently and scientifically by engineers who understand every problem involved.

We make the assertion that with the reduced prices on Diamond tires now in effect, even the manufacturer of low priced cars will not resist giving you Diamond tires if you specify Diamond and stand firm.

You get besides scientific building in Diamond tires Better Rubber, More Rubber-all together making tires that last longer, puncture less easily, stone bruise rarely-in short, Greatest Mileage.

> Get away from the Misleading and Immaterial Things—The Dust Thrown Up to Cloud Your Vision

Look to what counts most, what costs the manufacturer most, and what determines the service you are going to get for your money.

It is the quality and quantity of materials used, the quality of workmanship employed in their assembling, and the knowledge and character of the men behind the guns.

THE DIAMOND RUBBER CO. AKRON, OHIO

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WINTO'N SIX REGULAR TIRE EQUIPMENT FOR 1911 On All Cars Made by Makers of the Pierce Arrow.
Makers of the Oldsmobile.
Makers of the Premier.
Makers of the Stoddard-Dayton
Makers of the Franklin.
Makers of the Winton Six.
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Makers of the Stauley.
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Makers of the Moline. Makers of the Stoddard 20. Makers of the Spaulding.

Note the Quality of the Cars They Build. Count Them. A good tire equipment on your car is an indication that the maker uses the best of everything.

Each year more attention is paid to the quality of automobile tire equipment. Each year more manufacturers make Goodrich Tires their Regular Equipment. And all makers of good cars willingly provide Goodrich Tires when requested. Merit wins-in no product more conclusively than in Tires.

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